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**ADDITIONAL WORK NEEDED TO VERIFY AND  
DETERMINE THE EXTENT OF ORGANIC  
CONTAMINATION IN THE SAND AND GRAVEL  
AQUIFER DOWN-GRADIENT OF MONITORING  
WELL 2649**

**03/12/91**

**DOE-811-91  
DOE-FMPC/OEPA  
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LETTER**



Department of Energy

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FMPC Site Office  
P.O. Box 398705  
Cincinnati, Ohio 45239-8705  
(513) 738-6319

MAR 12 1991

DOE-811-91

Mr. Thomas A. Winston  
Southwest District Office  
Ohio Environmental Protection Agency  
40 South Main Street  
Dayton, Ohio 45402-2086

Dear Mr. Winston:

**ADDITIONAL WORK NEEDED TO VERIFY AND DETERMINE THE EXTENT OF ORGANIC CONTAMINATION IN THE SAND AND GRAVEL AQUIFER DOWN-GRADIENT OF MONITORING WELL 2649.**

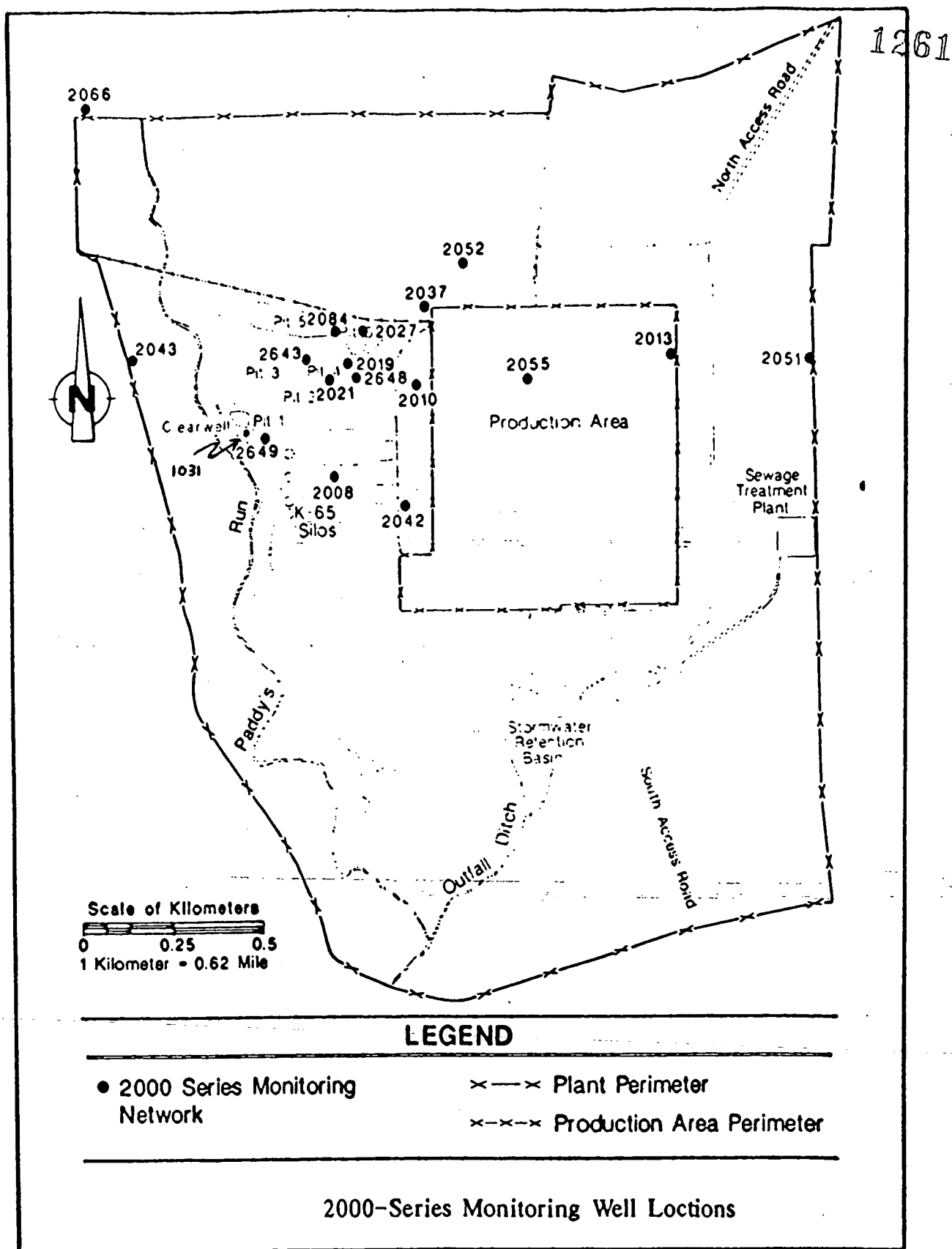
Reference: Letter, DOE-508-91, G. W. Westerbeck to T. Winston, "Detection of Appendix IX Constituents in Monitoring Well 2649," dated February, 6, 1991

In the referenced letter, DOE committed to providing the Ohio Environmental Protection Agency with a proposal for further investigation of 40 CFR 264 Appendix IX constituents in monitoring well 2649. This letter serves to follow through on that commitment.

Monitoring well 2649 is located in the sand and gravel aquifer, south of the Clearwell (see enclosed maps). On December 21, 1990, DOE was informed by the National Environmental Testing Laboratory in Dayton, Ohio that groundwater from this well contains Appendix IX constituents.

The presence of the Appendix IX constituents will be confirmed before proceeding with any additional assessment work. Appendix IX constituent sampling is scheduled to be performed on Monitoring Well 2649 during the February 1991 RCRA assessment sampling round. If this testing confirms the presence of Appendix IX constituents, then additional work will be conducted, as explained below. If test results do not indicate the presence of Appendix IX constituents, then the December 21, 1990 test results will be considered suspect. The contract laboratory report from this confirmatory sampling will be transmitted to your agency within 30 working days after the receipt of the report by DOE. Monitoring will continue at the well as outlined in the RCRA Groundwater Quality Assurance Program Plan (GQAPP) for Waste Pit #4.

The RCRA GQAPP states that if contamination is confirmed, both the vertical and lateral extent of that contamination will be determined. Therefore, should the February sampling at Monitoring Well 2649 confirm contamination in the water table zone of the sand and gravel aquifer, three additional monitoring wells will be proposed via an addendum to the Remedial





Investigation/Feasibility Study (RI/FS) Work Plan. The addendum will be submitted to the United States Environmental Protection Agency and the Ohio Environmental Protection Agency for parallel review. Upon approval, the FMPC will proceed with the well installations.

A 3000-series well will be proposed slightly down-gradient of Monitoring Well 2649, and two 2000-series wells will be proposed down-gradient of Monitoring Well 2649 (see Enclosures 1 and 2). The two 2000-series wells will be used to determine the lateral extent of contamination, and the 3000-series well will be used to determine the vertical extent. Should contamination be confirmed in these three wells, additional wells may be required. Progress will be reported in the RCRA Annual Report on March 1, of each year.

If your staff has any questions, please contact David Rast at (513) 738-6322.

Sincerely,

  
G. W. Westerbeck  
FMPC Site Manager

Enclosures: As stated

cc w/encl.:

K. Hayes, EM-422, GTN  
P. J. Gross, SE-31, ORO  
R. Bendula, OEPA-Dayton  
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~~S. M. Peterman, WMCO~~  
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cc: AR File  
ERA File